

CLAIMS

1. An exhaust-gas purifying catalyst comprising:

at least one kind of noble metal (2) selected from Ru, Rh, Pd, Ag, Ir, Pt, and Au;

5 a transition metal compound (3) including at least one kind of transition metal element selected from Mn, Fe, Co, Ni, Cu, and Zn, the transition metal compound having a metallic portion; and

a porous carrier (4) carrying the noble metal and the transition metal compound.

10 2. The exhaust-gas purifying catalyst as claimed in claim 1, wherein the noble metal and the transition metal element included in the transition metal compound are within 0.01 to 35 in weight ratio Bw/Aw.

3. The exhaust-gas purifying catalyst as claimed in claim 1, wherein the noble metal is 0.7g or less in amount per 1L of exhaust-gas purifying catalyst.

4. The exhaust-gas purifying catalyst as claimed in claim 1, wherein the noble metal is 0.5g or less in amount per 1L of exhaust-gas purifying catalyst.

5. The exhaust-gas purifying catalyst as claimed in claim 1, wherein the porous carrier includes at least one kind of rare earth element selected from Sc, Y, La, Ce, Pr, and Nd.

6. The exhaust-gas purifying catalyst as claimed in claim 1, wherein the transition metal element included in the transition metal compound and the noble metal are within 0.5 to 100 in particle diameter ratio Br/Ar.

7. The exhaust-gas purifying catalyst as claimed in claim 5, wherein the rare earth element included in the porous carrier and the transition metal element included in the transition metal compound are within 0.1 to 5 in weight ratio Cw/Bw.

8. The exhaust-gas purifying catalyst as claimed in claim 1,

wherein the metallic portion of the transition metal compound is 5% or more in ratio relative to the transition metal compound.